

# Electron Scattering by Waves

- Electron precipitation is caused by W-P interactions with trapped electrons.
- Voluminous theoretical and experimental research supports this contention.
- The applicable experimental data are mostly long-term decay rates of trapped electrons.

## Exceptions:

1. Lightning induced precipitation
  2. Precipitation correlated with chorus bursts
  3. Low altitude bounce and drift loss cone fluxes
  4. High angular resolution pitch angle distributions showing electrons inside the loss cone.
- Closure of W-P experiments not yet satisfactory.
  - SEPS can address this issue by measuring instantaneous bounce-averaged diffusion rates and comparing these rates with wave intensities.